

Classification:

EC16-035c

Reference:

ITB17-042c

Date:

September 14, 2020

INFINITI; DTC P0456 CAUSED BY EVAP LEAK AT VENT CONTROL VALVE O-RING

This bulletin has been amended. See Amendment History on the last page.
Please discard previous versions of this bulletin.

APPLIED VEHICLES:	2011-2012 G25 Sedan (V36)	2014-2015 Q60 Convertible (V36)
	2007-2008 G35 Sedan (V36)	2014-2015 Q60 Coupe (V36)
	2009-2013 G37 Convertible (V36)	2017-2020 Q60 Coupe (V37)
	2008-2013 G37 Coupe (V36)	2014-2019 Q70 (Y51)
	2009-2013 G37 Sedan (V36)	2014-2018 Q70 Hybrid (Y51)
	2006-2010 M45/M35 (Y50)	2017-2019 QX30 (H15)
	2011-2013 M37/M56 (Y51)	2014-2017 QX50 (J50)
	2004-2010 QX56 (JA60)	2019-2020 QX50 (J55)
	2011-2013 QX56 (Z62)	2014-2020 QX60 (L50)
	2015 Q40 (V36)	2014-2017 QX60 Hybrid (L50)
	2014-2020 Q50 (V37)	2014-2020 QX80 (Z62)
	2014-2018 Q50 Hybrid (V37)	

IF YOU CONFIRM

The MIL is ON in an APPLIED VEHICLE with DTC P0456 (EVAP VERY SML LEAK)

AND

- DTC P0456 is not caused by a loose fuel fill cap (refer to ITB13-044).
- An EVAP leak has been detected where the vent control valve mounts to the canister.
- The vent control valve O-ring seal is determined to be the cause.

ACTION

1. **DO NOT REPLACE** the vent control valve.
2. Replace the vent control valve O-ring seal (O-ring).
 - Refer to SERVICE PROCEDURE on the next page.

IMPORTANT: The purpose of ACTION (above) is to give you a quick idea of the work you will be performing. You **MUST** closely follow the entire SERVICE PROCEDURE as it contains information that is essential to successfully completing this repair.

Infiniti Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Infiniti retailer to determine if this applies to your vehicle.

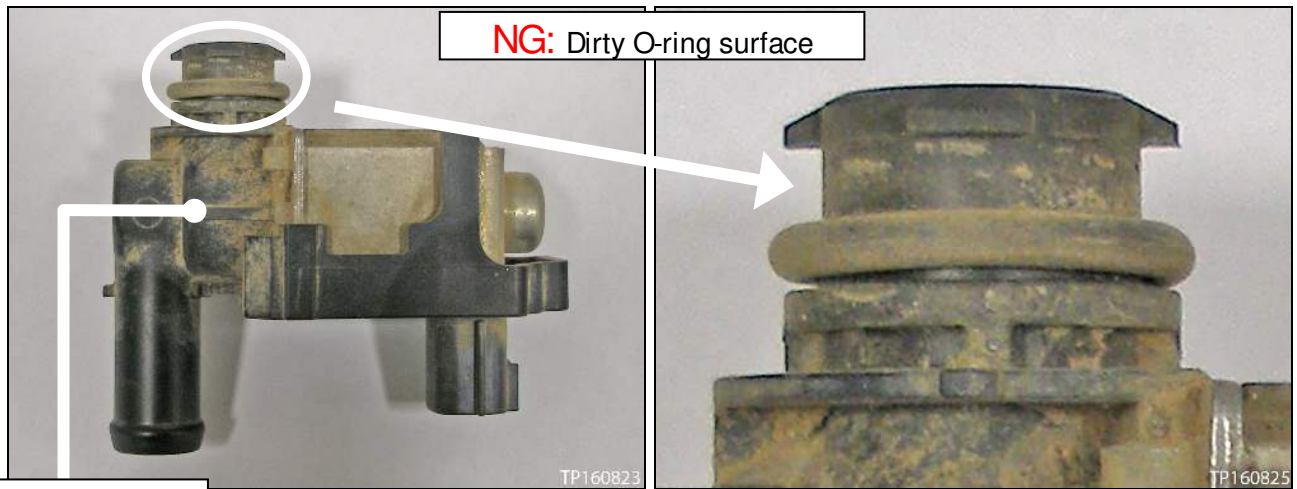
SERVICE PROCEDURE

1. Replace the O-ring.

- To access the O-ring, refer to the appropriate section in the Electronic Service Manual (ESM) of the APPLIED VEHICLE for vent control valve removal and installation.
- This O-ring is now available separately (see PARTS INFORMATION).
- When installing, do not add any lubrication to the O-ring.
- Seat the O-ring all the way down as shown on page 4, Figure 7.
 - Having the O-ring seated all the way down will assure it is not twisted or rolled over.
- Refer to the pictures on pages 3 and 4 for additional installation information.

CAUTION:

- Make sure the surfaces that the O-ring comes in contact with are clean.
- When installed, make sure the O-ring is not twisted or rolled over.
- Verify the repair is complete by checking for leaks with a “smoke” leak detection machine or CONSULT-III plus (C-III plus).
 - If a “smoke” leak detection machine is used, follow the manufacturer’s operating instructions.
 - If C-III plus is used:
 1. Confirm the fuel filler cap is secure.
 - Vehicles with a service port see page 5.
 - Vehicles without a service port see page 6.
 2. Using Active Test, close the vent control valve.
 3. Apply pressure using special tool J-42909 until the bar graph reaches about halfway.
 4. Monitor the bar graph for 10 minutes.



Vent control
valve

Figure 1

Figure 2

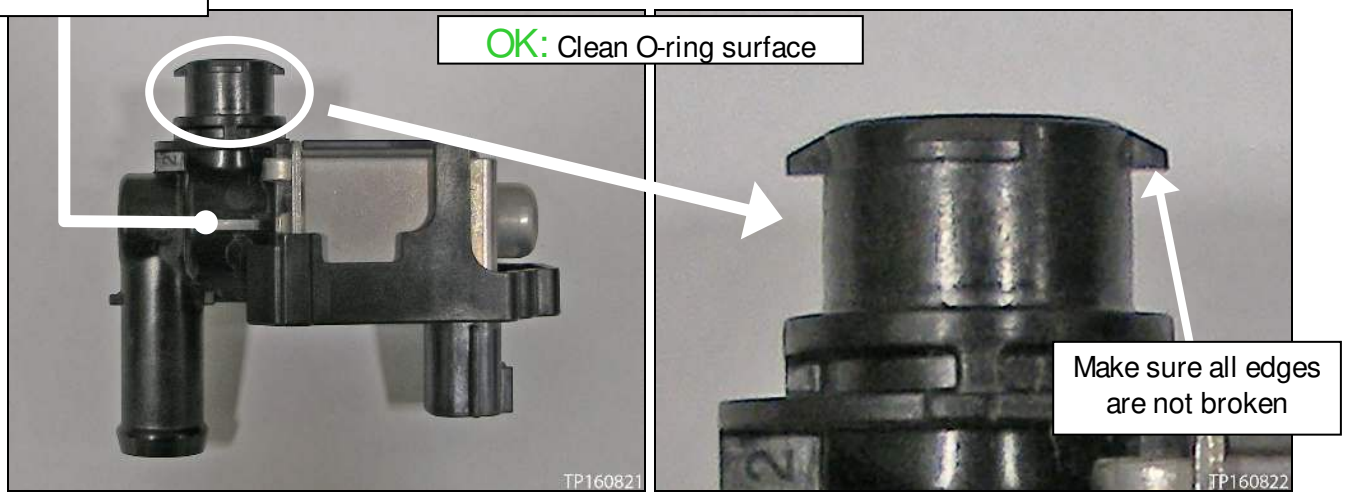


Figure 3

Figure 4

Where vent control valve
mounts in canister

Canister

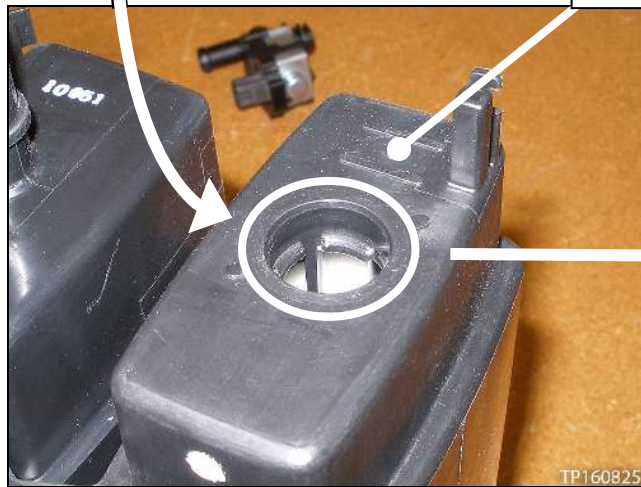


Figure 5

This surface must
be clean all around

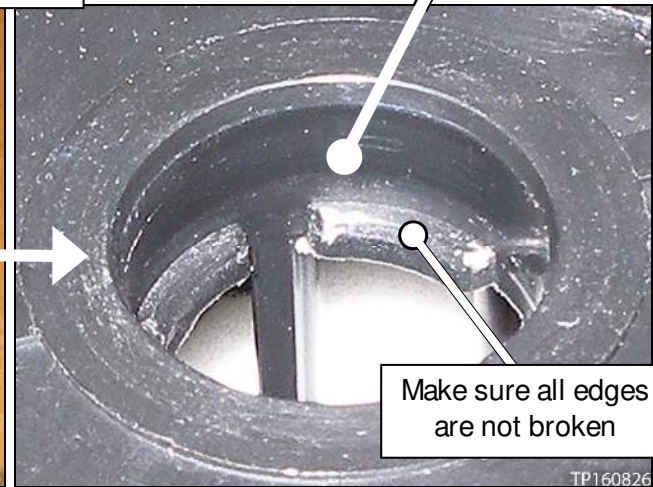


Figure 6

When fully seated (no
gaps), O-ring is not
twisted or rolled over

No gap all
around

O-ring

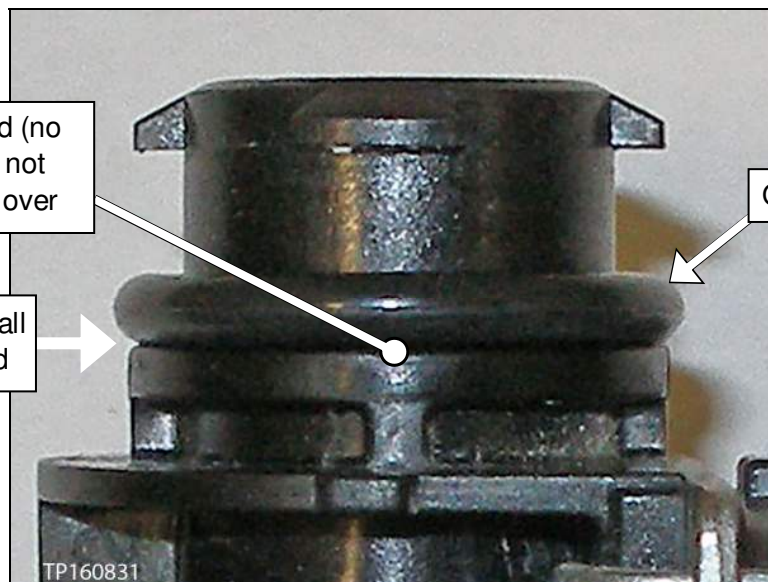


Figure 7

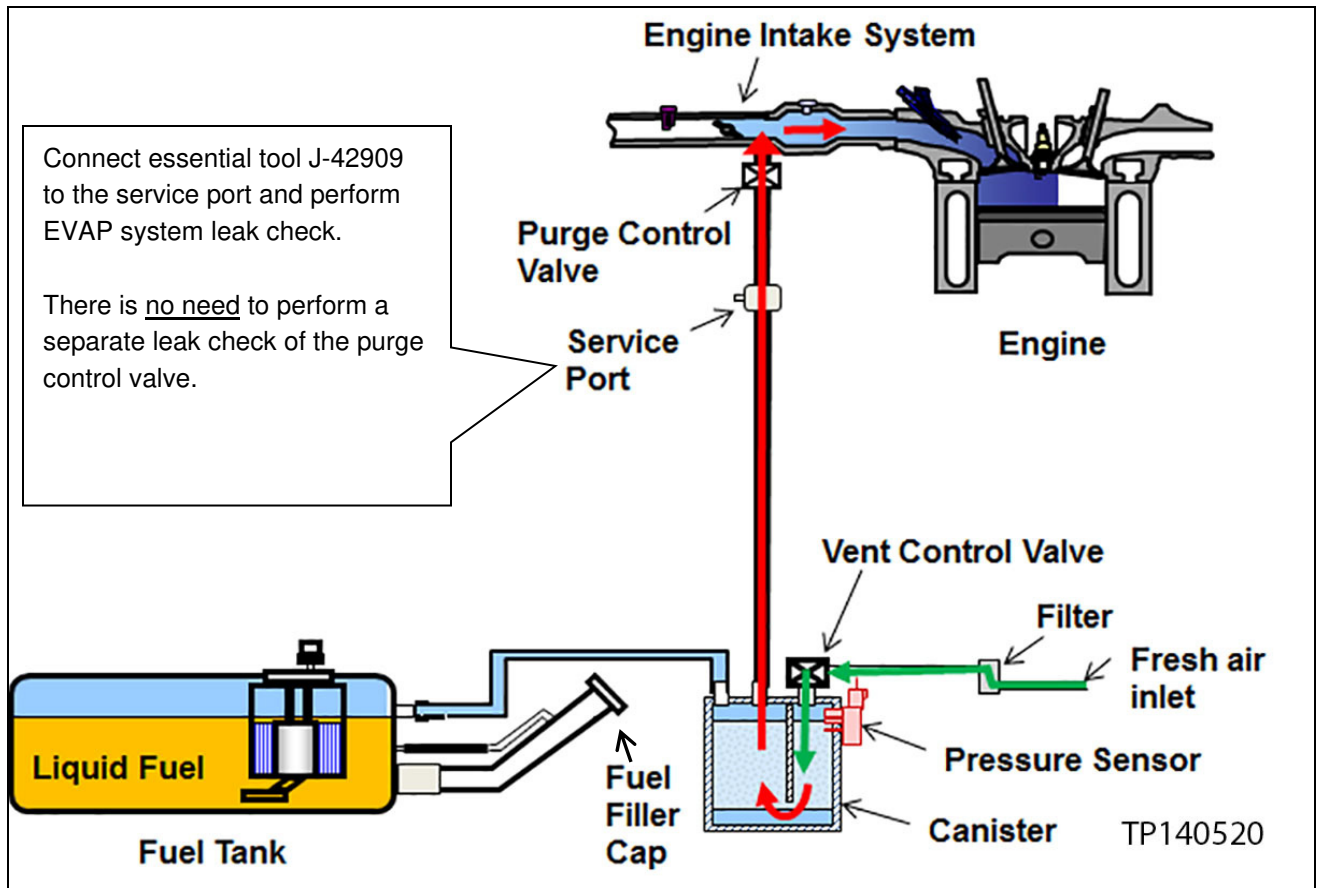


Figure 8

EVAP System Basic Operation

- Fuel vapor flows from fuel tank into canister (light blue area)
- Vapor flows from canister through purge control valve (red line)
- Fresh air flows into canister (green line)

Models without a Service Port
(QX30 and 2018 and Newer)

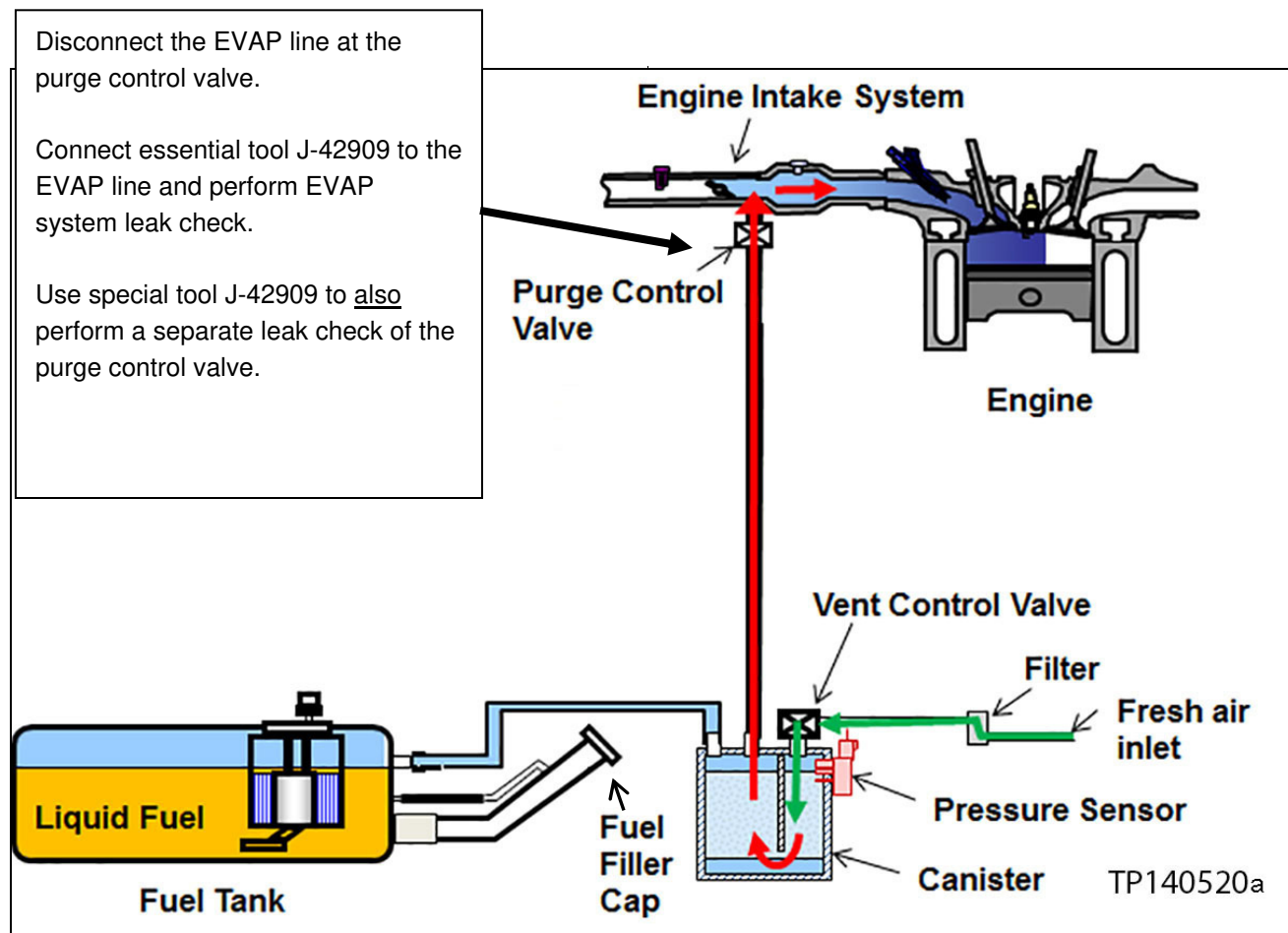


Figure 9

EVAP System Basic Operation

- Fuel vapor flows from fuel tank into canister (light blue area)
- Vapor flows from canister through purge control valve (red line)
- Fresh air flows into canister (green line)

PARTS INFORMATION

DESCRIPTION	P/N	QUANTITY
SEAL O-RING	16618-JF00A	1

CLAIMS INFORMATION

Submit a Primary Part (PP) line claim using the following claims coding:

DESCRIPTION	MODEL	PFP	OP CODE	SYM	DIA	FRT
Replace Vent Control Valve O-Ring	M35, M45 (Y50)	16618-JF00A	FX57AA	HD	32	0.3
	G25, G35, G37 (V36)					
	Q40, Q60 (V36)					
	Q50 Hybrid (V37)					
	Q50, Q60 (V37)	16618-JF00A	FX57AA	HD	32	0.4
	M37, M56, M Hybrid (Y51)					
	Q70, Q70 Hybrid (Y51)					
	EX35, EX37 (J50)					
	QX50 (J50)					
	FX35, FX37, FX45, FX50 (S51)					
	QX70 (S51)					
	JX35 (L50)					
	QX60 (L50), QX60 Hybrid					
	QX50 (J55)	16618-JF00A	FX57AA	HD	32	0.5
	QX56 (JA60)					
	QX56 (Z62)					
	QX80 (Z62)					

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
July 21, 2017	ITB17-042	Original bulletin published
November 16, 2018	ITB17-042a	APPLIED VEHICLES and CLAIMS INFORMATION updated
January 29, 2019	ITB17-042b	APPLIED VEHICLES updated
September 14, 2020	ITB17-042c	APPLIED VEHICLES updated

